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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/667,811	09/22/2003	Yun Cho	678-1121	2139

66547 7590 01/15/2008
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EXAMINER

BOATENG, ALEXIS ASIEDUA

ART UNIT	PAPER NUMBER
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2838

MAIL DATE	DELIVERY MODE
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01/15/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/667,811	CHO ET AL.
	Examiner	Art Unit
	Alexis Boateng	2838

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 29 March 2007.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-8, 10 - 12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-8, 10 - 12 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____. | 6) <input type="checkbox"/> Other: _____. |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1 – 4, 6 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Law (U.S. 5,733,674).

Regarding claims 1 – 3, 6 and 11, Law discloses wherein a battery charger for a mobile phone, comprising:

a first slot having an opening at front and top parts thereof and surrounded by a first inside wall and a first battery pack supporting surface (figure 4 item 100);

and a second slot having an opening at front and top parts thereof and surrounded by a second inside wall and a second battery pack supporting surface, wherein the first battery pack supporting surface intersects of the second inside wall to form an unobstructed opening between the first slot and the second slot (figure 4 item 98).

Regarding claim 4, Law discloses wherein the second battery pack supporting surface is a planar surface, and has a charging terminal thereon (column 8 lines 13 – 20).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Law (U.S. 5,733,674) in view of Kobayashi (U.S. 5,691,618).

Regarding claim 5, Law does not disclose the invention as claimed. Kobayashi discloses wherein the charging terminal comes into contact with a terminal formed at a back surface of a battery pack when the battery pack is received on the second battery pack-supporting surface. At the time of invention, it would have been obvious to a person of ordinary skill in the art to modify the Law system with the Kobayashi system so that the battery may be securely charged.

5. Claims 7, 8, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Law (U.S. 5,733,674) in view of Weiss (U.S. 5,059,885) and in further in view of Suzuki (U.S. 6,124,699).

Regarding claims 7, 8, and 10, Law discloses in figure 4 item 100 has fixing protrusions. In the alternative, Weiss discloses in figure 1 wherein item 111 is a fixing protrusion. At the time of invention, it would have been obvious to a person of ordinary skill in the art to modify the Law system with the Weiss system so that the phone is securely fixed within the system while charging. Law and Weiss disclose the invention as previously claimed, but do not disclose the remainder.

Suzuki discloses in figure 1A wherein item 5 is main lock to fix and release the battery. At the time of invention, it would have been obvious to a person of ordinary skill in the art to modify the Law and Weiss system with the Suzuki system so that the battery is reinforced in the system to ensure optimum charging.

6. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Law (U.S. 5,733,674) in view of Weiss (U.S. 5,059,885) and in further in view of Suzuki (U.S. 6,124,699) and in further view of Lloyd (U.S. 6,127,802).

Regarding claim 12, Law discloses a battery charger for a mobile phone comprising:

a first slot having an opening at front and top parts thereof and surrounded by a first inside wall and a first battery pack supporting surface (figure 4 item 100);

a second slot having an opening at front and top parts thereof and surrounded by a second inside wall and a second battery pack supporting surface (figure 4 item 98), wherein the front part of the opening of the second slot faces the opening of the first slot and is open to the first slot so that there is no obstruction between the first slot and the second slot (figure 4 items 100 and 98).

Law discloses in figure 4 wherein item 100 wherein the first slot has a plurality of fixing protrusions. In the alternative, Weiss discloses in figure 1 wherein item 111 is a fixing protrusion. At the time of invention, it would have been obvious to a person of ordinary skill in the art to modify the Law system with the Weiss

system so that the phone is securely fixed within the system while charging. Law and Weiss disclose the invention as previously claimed, but do not disclose the remainder. Suzuki discloses in figure 1A wherein item 5 is main lock to fix and release the battery. This main lock can also be the a sub-lock with a combining groove, which is provided at a lower portion of the second inside wall and combined with a combining protrusion formed at a lower end portion of a reserve battery pack when the reserve battery pack is received in the second battery pack supporting surface. Suzuki discloses in figure 1 wherein a coil spring, item 6, is provided in the main lock for providing a restoring force to the main-lock so that the main lock moves toward the locking groove of the reserve battery pack. Law, Weiss and Suzuki disclose the system as previously claimed, but do not disclose the remainder. Lloyd discloses in figure 3 wherein the main lock, item 105, is provided at an upper portion of the second battery pack supporting surface of the battery charger and combines with a locking groove at an upper portion of the reserve battery pack when the reserve battery pack arrives at the second battery supporting surface, thereby binding the battery pack to the battery charger.

Response to Arguments

7. Applicant's arguments with respect to claims 1 – 8, and 10 - 12 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexis Boateng whose telephone number is (571) 272-5979. The examiner can normally be reached on 8:30 am - 6:00 pm, Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ullah Akm can be reached on (571) 272-2361. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AB



BAO Q. VU
PRIMARY EXAMINER